AUTHOR INDEX

(D) Denotes Demonstration (T) Title only

ABDULRAZZAK Y., BROOKE O.G., DE BENOIS B. & DEPLA P.C. A method for measuring metabolic rate by open circuit indirect calorimetry over prolonged periods in neonates. (D) 4*P*

AL-UGAILY Layla H., PACK R.J. & WIDDICOMBE J.G. The innervation of the murine airway. 54*P*

ALDER G., BASHFORD C.L. & PASTERNAK C.A. A new method for measuring intracellular pH and potassium concentration. (D) 5*P*

ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Dual action of almitrine on pulmonary blood vessels in the dog. 19*P*

ARZYMANOW B.J., GONZALO A. & LIEBERMAN A.R. Interneurones in the dorsal lateral geniculate nucleus (LGd) of the rabbit. 47*P*

ASHMORE J.F. & COPENHAGEN D.R. An analysis of transmission from cones to hyperpolarizing bipolar cells in the retina of the turtle. 569

BARLOW H.B., GEMPERLEIN R., PAUL R. & STEINER A. Human contrast sensitivity for comb-filtered spectra. 50*P*

BASHFORD C.L. *see* ALDER G., BASHFORD C.L. & PASTERNAK C.A. A new method for measuring intracellular pH and potassium concentration. (D) 5*P*

BAUMAN K.F. & SIBLEY C.P. An ultrastructural tracer study of maternal to fetal protein transfer across the guinea-pig haemochorial placenta; effect of molecular charge. 34*P*

BEADLE D.J., BOTHAM R.P. & LEES G. Acetylcholine receptors on cultured insect neurones. 59*P*

BEHRENS Maria Isabel, LETINSKY M.S., NUSSINOVITCH I. & RAHAMIMOFF R. Synaptic involvement in the Rosenblueth-Luco phenomenon in the frog and rat. 46*P*

BELGUM Jack H., DVORAK David R. & MCREYNOLDS John S. Sustained and transient synaptic inputs to on–off ganglion cells in the mudpuppy retina. 599

BENEDETTI F., MONTAROLO P.G., STRATA P. & TEMPIA F. Inferior olive inactivation decreases the excitability of the intracerebellar and lateral vestibular nuclei in the rat. 195

BENHAM C.D. & BOLTON T.B. Patch-clamp studies of slow potential-sensitive potassium channels in longitudinal smooth muscle cells of rabbit jejunum. 469

BENHAM C.D., BOLTON T.B. & LANG R.J. Patch voltage-clamp technique applied to collagenase-dispersed smooth muscle cells of rabbit jejunum. (D) 3*P*

BIGLAND-RITCHIE Brenda, JOHANSSON R., LIPPOLD O.C.J., SMITH S. & WOODS J.J. Changes in motoneurone firing rates during sustained maximal voluntary contractions. 335

BLIX Arnoldus Schytte & JOHNSEN Helge Kreützer Aspects of nasal heat exchange in resting reindeer. 445

BOLTON T.B. *see* BENHAM C.D. & BOLTON T.B. Patch-clamp studies of slow potential-sensitive potassium channels in longitudinal smooth muscle cells of rabbit jejunum. 469

BOLTON T.B. *see* BENHAM C.D., BOLTON T.B. & LANG R.J. Patch voltage-clamp technique applied to collagenase-dispersed smooth muscle cells of rabbit jejunum. (D) 3*P*

BORG Jörgen, GRIMBY Lennart & HANNERZ Jan The fatigue of voluntary contraction and the peripheral electrical propagation of single motor units in man. 435

BOSTOCK H. & RASMINSKY M. Potassium channel distribution in spinal root axons of dystrophic mice. 145

BOTHAM R.P. *see* BEADLE D.J., BOTHAM R.P. & LEES G. Acetylcholine receptors on cultured insect neurones. 59*P*

BROOKE O.G. *see* ABDULRAZZAK Y., BROOKE O.G., DE BENOIS B. & DEPLA P.C. A method for measuring metabolic rate by open circuit indirect calorimetry over prolonged periods in neonates. (D) 4*P*

BROOKS P.A., CRUNELLI V., FORDA S., KELLY J.S. & WILSON K.C.P. Intracellular recordings from raphe neurones of the rat and their identification *in vitro*. (D) 12*P*

BUNDGAARD A., SYABBALO C. & WIDDICOMBE J.G. A method of measuring human nasal airflow resistance. (D) 7*P*

BYWATER R.A.R. & TAYLOR G.S. Non-cholinergic fast and slow post-stimulus depolarization in the guinea-pig ileum. 47

CACHELIN A.B., DE PEYER J.E., KOKUBUN S. & REUTER H. Sodium channels in cultured cardiac cells. 389

CAMPBELL N.C., EKEROT C.-F., HESSLOW G. & OSCARSSON O. Dendritic plateau potentials evoked in Purkinje cells by parallel fibre volleys in the cat. 209

CAMPBELL N.C., EKEROT C.-F. & HESSLOW G. Interaction between responses in Purkinje cells evoked by climbing fibre impulses and parallel fibre volleys in the cat. 225

CARTER D.A. & WHITEHEAD Saffron A. Inhibition of the postive-feedback effect of ovarian steroids in ovariectomized rats by hyperprolactinaemia: evidence for mediation via endogenous opioid peptides. 39*P*

CASE R.M., GARNER A. & UDDIN K.K. Simultaneous determination of duodenal and pancreatic bicarbonate transport: differential effects of secretin and prostaglandin E_2 in the cat *in vivo*. 36*P*

CASTEELS R. & LOGIN I.S. Reserpine has a direct action as a calcium antagonist on mammalian smooth muscle cells. 403

CHAPPLE D.J. & TAYLOR D.E.M. The effect of P_{O_2} and P_{CO_2} on the viscosity of human blood. 22*P*

CHATAMRA K., DANIEL P.M., KENDALL M.D. & LAM D.K.C. Changes in the weight of the thymus in fasted rats. 51*P*

COLERIDGE H.M., COLERIDGE J.C.G. & ROBERTS A.M. Rapid shallow breathing evoked by selective stimulation of airway C fibres in dogs. 415

COLERIDGE J.C.G. *see* COLERIDGE H.M., COLERIDGE J.C.G. & ROBERTS A.M. Rapid shallow breathing evoked by selective stimulation of airway C fibres in dogs. 415

COLES J.A. & ORKAND R.K. Modification of potassium movement through the retina of the drone (*Apis mellifera* ♂) by glial uptake. 157

COLLEWIJN H., MARTINS A.J. & STEINMAN R.M. Compensatory eye movements during active and passive head movements: fast adaptation to changes in visual magnification. 259

COLLIER J.G. & LEIGH P.N. Essential tremor cannot be explained solely by an enhancement of peripheral β-adrenoceptor stimulation. 26*P*

COLLIER J.G. & FULLER R.W. Evidence that sodium cromoglycate stimulates sensory nerves in man. 37*P*

COLLINGRIDGE G.L., KEHL S.J. & MCLENNAN H. Intracellularly recorded effects of kainic acid in rat hippocampal slices. 43*P*

COLSON R.H., HYND J. & STOCK M.J. Continuous recordings of core and interscapular brown fat temperature by radio telemetry in the rat. (D) 9*P*

COPENHAGEN D.R. *see* ASHMORE J.F. & COPENHAGEN D.R. An analysis of transmission from cones to hyperpolarizing bipolar cells in the retina of the turtle. 569

CORNWALL M.C. & GORMAN A.L.F. The cation selectivity and voltage dependence of the light-activated potassium conductance in scallop distal photoreceptor. 287

CORNWALL M.C. & GORMAN A.L.F. Colour dependence of the early receptor potential and late receptor potential in scallop distal photoreceptor. 307

COULTON G.R. & FIRTH J.A. Variations in the distribution of cytochemically localized activities of succinate, malate and isocitrate dehydrogenases between parietal cells in mouse gastric glands. 68*P*

CREED Kate E. & ITO Yushi Excitatory junction potentials in rabbit urinary bladder. 29*P*

CRUNELLI V. *see* BROOKS P.A., CRUNELLI V., FORDA S., KELLY J.S. & WILSON K.C.P. Intracellular recordings from raphe neurones of the rat and their identification *in vitro*. (D) 12*P*

CRUNELLI V., FORDA S., KELLY J.S. & WISE J.C.M. A programme for the analysis of intracellular data recorded from *in vitro* preparations of central neurones. (D) 13*P*

CUMMIN A.R.C., IYAWE V.I. & SAUNDERS K.B. The ventilation response to carbon dioxide in exercise. 17*P*

CUNNINGHAM Jo R., DAWSON Claire & NEAL Michael J. Evidence for a cholinergic inhibitory feed-back mechanism in the rabbit retina. 455

CURZON G., GREEN P., SARNA G.S. & TRICKLEBANK M.D. Tryptophan transport mechanisms beyond the blood–brain barrier of the rat. 67*P*

DANIEL P.M. *see* CHATAMRA K., DANIEL P.M., KENDALL M.D. & LAM D.K.C. Changes in the weight of the thymus in fasted rats. 51*P*

DANIEL P.M. & HENDERSON J.R. Electron microscopy of pancreatic capillaries in the perinatal rat. 52P

DAUGHERTY A., MOHAMED O.Y. & WOODWARD B. Effect of potassium on coronary artery ligation induced ventricular arrhythmias in the isolated rat heart. 66P

DAVIDSON R.N., GREIG C., HUSAIN A. & SAUNDERS K.B. Measurement of respiratory impedance. (D) 9P

DAVIES C.T.M., WHITE M.J. & YOUNG K. Mechanical properties of triceps surae muscle in children aged 11 and 14 years. 23P

DAWSON Claire *see* CUNNINGHAM Jo R., DAWSON Claire & NEAL Michael J. Evidence for a cholinergic inhibitory feed-back mechanism in the rabbit retina. 455

DE BENOIS B. *see* ABDULRAZZAK Y., BROOKE O.G., DE BENOIS B. & DEPLA P.C. A method for measuring metabolic rate by open circuit indirect calorimetry over prolonged periods in neonates. (D) 4P

DEMAINE C., KANN Hazel C. & VICKERS Jennifer M. Pinealectomy stimulates spermatogenesis in the Syrian hamster. 60P

De PEYER J.E. *see* CACHELIN A.B., De PEYER J.E., KOKUBUN S. & REUTER H. Sodium channels in cultured cardiac cells. 389

DEPLA P.C. *see* ABDULRAZZAK Y., BROOKE O.G., DE BENOIS B. & DEPLA P.C. A method for measuring metabolic rate by open circuit indirect calorimetry over prolonged periods in neonates. (D) 4P

DJAMGOZ M.B.A. & LAMING P.J. Intracellular chloride activities of fish (roach) retinal horizontal cells. 48P

DRAKE-HOLLAND Angela J., HYND J. & PEPPER J.R. A method for producing left ventricular hypertrophy with normal coronary artery pressure in puppies. (D) 1P

DUN N.J. & KIRALY M. Capsaicin causes release of a substance P-like peptide in guinea-pig inferior mesenteric ganglia. 107

DVORAK David R. *see* BELGUM Jack H., DVORAK David R. & McREYNOLDS John S. Sustained and transient synaptic inputs to on–off ganglion cells in the mudpuppy retina. 599

EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

EISNER D.A., LEDERER W.J. & SHEU S-S. The role of intracellular sodium activity in the anti-arrhythmic action of local anaesthetics in sheep Purkinje fibres. 239

EKEROT C.-F. *see* CAMPBELL N.C., EKEROT C.-F., HESSLOW G. & OSCARSSON O. Dendritic plateau potentials evoked in Purkinje cells by parallel fibre volleys in the cat. 209

EKEROT C.-F. *see* CAMPBELL N.C., EKEROT C.-F. & HESSLOW G. Interaction between responses in Purkinje cells evoked by climbing fibre impulses and parallel fibre volleys in the cat. 225

ELIZALDE A., HUERTA M. & STEFANI E. Selective reinnervation of twitch and tonic muscle fibres of the frog. 513

ELLORY J.C., FLATMAN P.W. & STEWART G.W. Inhibition of human red cell sodium and potassium transport by divalent cations. 1

EUSEBI F., MILEDI R. & TAKAHASHI T.' Aequorin–calcium transients in frog twitch muscle fibres. 91

FELDBERG W., PYKE D.A. & STUBBS W.A. Hyperglycaemia, a morphine-like effect produced by naloxone in the cat. 121

FILIPPI G.M., GRASSI C. & PASSATORE Magda The possible action of the cervical sympathetic nerves on intrafusal fibres of jaw muscle spindles in the rabbit. 27P

FIRTH J.A. Structural features of intercellular junctions in guinea-pig placental capillary endothelium. 35P

FIRTH J.A. *see* COULTON G.R. & FIRTH J.A. Variations in the distribution of cytochemically localized activities of succinate, malate and isocitrate dehydrogenases between parietal cells in mouse gastric glands. 68P

FITCH N.A. & JOHNSTON I.A. Muscle capillary supply in an Antarctic fish (*Chaenocephalus aceratus*) that lacks respiratory pigments. 65P

FLATMAN P.W. *see* ELLORY J.C., FLATMAN P.W. & STEWART G.W. Inhibition of human red cell sodium and potassium transport by divalent cations. 1

FORDA S. *see* BROOKS P.A., CRUNELLI V., FORDA S., KELLY J.S. & WILSON K.C.P. Intracellular recordings from raphe neurones of the rat and their identification *in vitro*. (D) 12P

FORDA S. *see* CRUNELLI V., FORDA S., KELLY J.S. & WISE J.C.M. A programme for the analysis of intracellular data recorded from *in vitro* preparations of central neurones. (D) 13P

FORDA Susan R. & KELLY J.S. Co-cultures of sensory and 5-hydroxytryptamine-containing rat brain-stem neurones. (D) 13*P*

FREDHOLM B.B. *see* EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

FRIES W. & ZEKI S. The laminar origin of the cortical inputs to the fourth visual complex of macaque monkey cortex. 51*P*

FULLER R.W. *see* COLLIER J.G. & FULLER R.W. Evidence that sodium cromoglycate stimulates sensory nerves in man. 37*P*

GARNER A. *see* CASE R.M., GARNER A. & UDDIN K.K. Simultaneous determination of duodenal and pancreatic bicarbonate transport: differential effects of secretin and prostaglandin E_2 in the cat *in vivo*. 36*P*

GEMPERLEIN R. *see* BARLOW H.B., GEMPERLEIN R., PAUL R. & STEINER A. Human contrast sensitivity for comb-filtered spectra. 50*P*

GLANZMAN David L. Spatial properties of cells in the rabbit's striate cortex. 535

GOATCHER A. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Dual action of almitrine on pulmonary blood vessels in the dog. 19*P*

GODFRAIND T. & MOREL Nicole Na–Ca exchange in guinea-pig and rat smooth muscle. 23*P*

GONZALO A. *see* ARZYMANOW B.J., GONZALO A. & LIEBERMAN A.R. Interneurones in the dorsal lateral geniculate nucleus (LGd) of the rabbit. 47*P*

GORMAN A.L.F. *see* CORNWALL M.C. & GORMAN A.L.F. The cation selectivity and voltage dependence of the light-activated potassium conductance in scallop distal photoreceptor. 287

GORMAN A.L.F. *see* CORNWALL M.C. & GORMAN A.L.F. Colour dependence of the early receptor potential and late receptor potential in scallop distal photoreceptor. 307

GRASSI C. *see* FILIPPI G.M., GRASSI C. & PASSATORE Magda The possible action of the cervical sympathetic nerves on intrafusal fibres of jaw muscle spindles in the rabbit. 27*P*

GREEN P. *see* CURZON G., GREEN P., SARNA G.S. & TRICKLEBANK M.D. Tryptophan transport mechanisms beyond the blood–brain barrier of the rat. 67*P*

GREIG C. *see* DAVIDSON R.N., GREIG C., HUSAIN A. & SAUNDERS K.B. Measurement of respiratory impedance. (D) 9*P*

GRIMBY Lennart *see* BORG Jörgen, GRIMBY Lennart & HANNERZ Jan The fatigue of voluntary contraction and the peripheral electrical propagation of single motor units in man. 435

HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. The influence of cephalic blood P_{CO_2} on the cardiac inotropic response from carotid chemoreceptors. 21*P*

HANNERZ Jan *see* BORG Jörgen, GRIMBY Lennart & HANNERZ Jan The fatigue of voluntary contraction and the peripheral electrical propagation of single motor units in man. 435

HATTON G.I., HO Y.W. & MASON W.T. Synaptic mediation of supraoptic neuronal activity in slices of rat hypothalamus. 41*P*

HEATHER J.D. & WHITEHEAD Saffron A. Acute and chronic effects of a potent analogue of luteinizing hormone releasing hormone (Buserelin) on pituitary LH responses in rats. 40*P*

HENDERSON J.R. *see* DANIEL P.M. & HENDERSON J.R. Electron microscopy of pancreatic capillaries in the perinatal rat. 52*P*

HENDERSON Leslie P., KUFFLER Damien P., NICHOLLS John & ZHANG Ren-ji Structural and functional analysis of synaptic transmission between identified leech neurones in culture. 347

HESSLOW G. *see* CAMPBELL N.C., EKEROT C.-F., HESSLOW G. & OSCARSSON O. Dendritic plateau potentials evoked in Purkinje cells by parallel fibre volleys in the cat. 209

HESSLOW G. *see* CAMPBELL N.C., EKEROT C.-F. & HESSLOW G. Interaction between responses in Purkinje cells evoked by climbing fibre impulses and parallel fibre volleys in the cat. 225

HO Y.W. *see* HATTON G.I., HO Y.W. & MASON W.T. Synaptic mediation of supraoptic neuronal activity in slices of rat hypothalamus. 41*P*

HORSTER Michael & LÜCKHOFF Andreas Aldosterone on sodium transport of rat distal colon in long-term adrenalectomy during acute and chronic substitution. 503

HORTON R.W., JAZRAWI S.P. & PRESTWICH S.A. Noradrenergic (NA) receptor binding in strains of mice susceptible (*DBA/2*) and resistant (*C57 BL/6*) to audiogenic seizures (AS). 58*P*

HOUNSGAARD J. & NICHOLSON C. Potassium accumulation around individual Purkinje cells in cerebellar slices from the guinea-pig. 359

HOWARD R., MCGARRICK J., PERRY B., STEWART A. & THEXTON A. The radiographic study of human tongue movements. (D) 10*P*

HUERTA M. *see* ELIZALDE A., HUERTA M. & STEFANI E. Selective reinnervation of twitch and tonic muscle fibres of the frog. 513

HUGHES J.M.B. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Dual action of almitrine on pulmonary blood vessels in the dog. 19*P*

HUGHES P.R. & STONE T.W. Purine receptors in the rat left atrium. 58*P*

HUSAIN A. *see* DAVIDSON R.N., GREIG C., HUSAIN A. & SAUNDERS K.B. Measurement of respiratory impedance. (D) 9*P*

HYND J. *see* DRAKE-HOLLAND Angela J., HYND J. & PEPPER J.R. A method for producing left ventricular hypertrophy with normal coronary artery pressure in puppies. (D) 1*P*

HYND J. *see* COLSON R.H., HYND J. & STOCK M.J. Continuous recordings of core and interscapular brown fat temperature by radio telemetry in the rat. (D) 9*P*

IGUSA Yukio & MIYAZAKI Shun-ichi Effects of altered extracellular and intracellular calcium concentration on hyperpolarizing responses of the hamster egg. 611

IGUSA Yukio, MIYAZAKI Shun-ichi & YAMASHITA Naohide Periodic hyperpolarizing responses in hamster and mouse eggs fertilized with mouse sperm. 633

INKSTER S.E. & WHITEHEAD Saffron A. Effects of neonatal administration of monosodium glutamate on serum LH and *in vitro* pituitary LH responses to LHRH and potassium in intact rats. 61*P*

ITO Yushi *see* CREED Kate E. & ITO Yushi Excitatory junction potentials in rabbit urinary bladder. 29*P*

IYAWE V.I. *see* CUMMIN A.R.C., IYAWE V.I. & SAUNDERS K.B. The ventilation response to carbon dioxide in exercise. 17*P*

JAMI Léna, MURTHY K.S.K., PETIT J. & ZYTNICKI D. After-effects of repetitive stimulation at low frequency on fast-contracting motor units of cat muscle. 129

JAZRAWI S.P. *see* HORTON R.W., JAZRAWI S.P. & PRESTWICH S.A. Noradrenergic (NA) receptor binding in strains of mice susceptible (*DBA/2*) and resistant (*C57 BL/6*) to audiogenic seizures (AS). 58*P*

JOHANSSON R. *see* BIGLAND-RITCHIE Brenda, JOHANSSON R., LIPPOLD O.C.J., SMITH S. & WOODS J.J. Changes in motoneurone firing rates during sustained maximal voluntary contractions. 335

JOHNSEN Helge Kreützer *see* BLIX Arnoldus Schytte & JOHNSEN Helge Kreützer Aspects of nasal heat exchange in resting reindeer. 445

JOHNSTON I.A. pCa-tension characteristics of skinned muscle cells isolated from fish atria (*Myoxocephalus scorpius*: teleostii). 64*P*

JOHNSTON I.A. *see* FITCH N.A. & JOHNSTON I.A. Muscle capillary supply in an Antarctic fish (*Chaenocephalus aceratus*) that lacks respiratory pigments. 65*P*

JONES A.W., OLVERMAN H.J. & WATKINS J.C. A study of *N*-methyl-D-aspartate receptor sites on rat brain membranes using [^{3}H]D(−)-2-amino-5-phosphonovalerate as a labelled ligand. 45*P*

JUKES M.G.M. & SMITH D.M. The neural regulation of copulatory behaviour in male rats. 42*P*

KANN Hazel C. *see* DEMAINE C., KANN Hazel C. & VICKERS Jennifer M. Pinealectomy stimulates spermatogenesis in the Syrian hamster. 60*P*

KEHL S.J. *see* COLLINGRIDGE G.L., KEHL S.J. & MCLENNAN H. Intracellularly recorded effects of kainic acid in rat hippocampal slices. 43*P*

KELLY J.S. *see* BROOKS P.A., CRUNELLI V., FORDA S., KELLY J.S. & WILSON K.C.P. Intracellular recordings from raphe neurones of the rat and their identification *in vitro*. (D) 12*P*

KELLY J.S. *see* CRUNELLI V., FORDA S., KELLY J.S. & WISE J.C.M. A programme for the analysis of intracellular data recorded from *in vitro* preparations of central neurones. (D) 13*P*

KELLY J.S. *see* FORDA Susan R. & KELLY J.S. Co-cultures of sensory and 5-hydroxytryptamine-containing rat brain-stem neurones. (D) 13*P*

KELLY J.S., MAYER M.L., WILSON J.A. & WILSON K.C.P. Rat striatum in monolayer cell culture. (D) 14*P*

KENDALL M.D. *see* CHATAMRA K., DANIEL P.M., KENDALL M.D. & LAM D.K.C. Changes in the weight of the thymus in fasted rats. 51*P*

KENT P.W. & MIAN N. Association of stimulated mucin secretion with altered Ca^{2+} ion fluxes in isolated chicken tracheal luminal cells *in vitro*. 31*P*

KIRALY M. *see* DUN N.J. & KIRALY M. Capsaicin causes release of a substance P-like peptide in guinea-pig inferior mesenteric ganglia. 107

KNIGHT A.D. & LEVICK J.R. A method for the investigation of fluid exchange between blood and the synovial cavity of the rabbit knee. (D) 3*P*

KNOX P. Filtration of plasma proteins by human endothelial cell cultures or their extracellular matrix. (D) 6P

KNOX P. & PFLUG J.J. The effect of arterial occlusion on lymphocyte emigration from the popliteal lymph node in the greyhound. 53P

KOKUBUN S. *see* CACHELIN A.B., DE PEYER J.E., KOKUBUN S. & REUTER H. Sodium channels in cultured cardiac cells. 389

KUFFLER Damien P. *see* HENDERSON Leslie P., KUFFLER Damien P., NICHOLLS John & ZHANG Ren-ji Structural and functional analysis of synaptic transmission between identified leech neurones in culture. 347

LAM D.K.C. *see* CHATAMRA K., DANIEL P.M., KENDALL M.D. & LAM D.K.C. Changes in the weight of the thymus in fasted rats. 51P

LAMING P.J. *see* DJAMGOZ M.B.A. & LAMING P.J. Intracellular chloride activities of fish (roach) retinal horizontal cells. 48P

LANCASTER B. & WHEAL H.V. Failure of paired pulse inhibition in the hippocampus of rats pretreated with kainic acid. 44P

LANG R.J. *see* BENHAM C.D., BOLTON T.B. & LANG R.J. Patch voltage-clamp technique applied to collagenase-dispersed smooth muscle cells of rabbit jejunum. (D) 3P

LEDERER W.J. *see* EISNER D.A., LEDERER W.J. & SHEU S-S. The role of intracellular sodium activity in the anti-arrhythmic action of local anaesthetics in sheep Purkinje fibres. 239

LEES G. *see* BEADLE D.J., BOTHAM R.P. & LEES G. Acetylcholine receptors on cultured insect neurones. 59P

LEIGH P.N. *see* COLLIER J.G. & LEIGH P.N. Essential tremor cannot be explained solely by an enhancement of peripheral β-adrenoceptor stimulation. 26P

LETINSKY M.S. *see* BEHRENS Maria Isabel, LETINSKY M.S., NUSSINOVITCH I. & RAHAMIMOFF R. Synaptic involvement in the Rosenblueth-Luco phenomenon in the frog and rat. 46P

LEVICK J.R. A microprocessor-based model of diffusional flux across the blood–joint barrier. (D) 2P

LEVICK J.R. *see* KNIGHT A.D. & LEVICK J.R. A method for the investigation of fluid exchange between blood and the synovial cavity of the rabbit knee. (D) 3P

LIEBERMAN A.R. *see* ARZYMANOW B.J., GONZALO A. & LIEBERMAN A.R. Interneurones in the dorsal lateral geniculate nucleus (LGd) of the rabbit. 47P

LIPPOLD O.C.J. *see* BIGLAND-RITCHIE Brenda, JOHANSSON R., LIPPOLD O.C.J., SMITH S. & WOODS J.J. Changes in motoneurone firing rates during sustained maximal voluntary contractions. 335

LLOYD H.G.E. & STONE T.W. A different time course of purine release from rat brain slices and synaptosomes. 57P

LOGIN I.S. *see* CASTEELS R. & LOGIN I.S. Reserpine has a direct action as a calcium antagonist on mammalian smooth muscle cells. 403

LUCK P. & UNWIN A. Influence of a 48-hour fast on thermoregulatory sweating in man. 38P

LÜCKHOFF Andreas *see* HORSTER Michael & LÜCKHOFF Andreas Aldosterone on sodium transport of rat distal colon in long-term adrenalectomy during acute and chronic substitution. 503

LUSH D.J., MUNDAY K.A. & NOBLE A.R. Furosemide fails to alter plasma active or inactive renin in conscious sheep but does so in anaesthetized animals. 57

MCGARRICK J. *see* HOWARD R., MCGARRICK J., PERRY B., STEWART A. & THEXTON A. The radiographic study of human tongue movements. (D) 10P

MCGARRICK J. & THEXTON A. Computer-based display of the individual components of oral movement comprising feeding in animals and man. (D) 11P

MCGARRICK J. & THEXTON A. Digastric reflex latency in the pre-weaning rabbit. 28P

MCLENNAN H. *see* COLLINGRIDGE G.L., KEHL S.J. & MCLENNAN H. Intracellularly recorded effects of kainic acid in rat hippocampal slices. 43P

MCREYNOLDS John S. *see* BELGUM Jack H., DVORAK David R. & MCREYNOLDS John S. Sustained and transient synaptic inputs to on–off ganglion cells in the mudpuppy retina. 599

MANN G.E., WILSON S.M. & YUDILEVICH D.L. Characteristics of a high-affinity-L-lysine transport system in the basolateral membrane of cat salivary epithelium. 32P

MARTINS A.J. *see* COLLEWIJN H., MARTINS A.J. & STEINMAN R.M. Compensatory eye movements during active and passive head movements: fast adaptation to changes in visual magnification. 259

MASON W.T. *see* HATTON G.I., HO Y.W. & MASON W.T. Synaptic mediation of supraoptic neuronal activity in slices of rat hypothalamus. 41P

MAYER J. Heidi & TOMLINSON D.R. The influence of aldose reductase inhibition and nerve *myo*-inositol on axonal transport and nerve conduction velocity in rats with experimental diabetes. 25*P*

MAYER M.L. *see* KELLY J.S., MAYER M.L., WILSON J.A. & WILSON K.C.P. Rat striatum in monolayer cell culture. (D) 14*P*

MAYER Mark L. & WESTBROOK Gary L. A voltage-clamp analysis of inward (anomalous) rectification in mouse spinal sensory ganglion neurones. 19

MIAN N. *see* KENT P.W. & MIAN N. Association of stimulated mucin secretion with altered Ca^{2+} ion fluxes in isolated chicken tracheal luminal cells *in vitro*. 31*P*

MILEDI R. *see* EUSEBI F., MILEDI R. & TAKAHASHI T. Aequorin–calcium transients in frog twitch muscle fibres. 91

MILEDI R., PARKER I. & ZHU P.H. Calcium transients studied under voltage-clamp control in frog twitch muscle fibres. 649

MIYAZAKI Shun-ichi *see* IGUSA Yukio & MIYAZAKI Shun-ichi Effects of altered extracellular and intracellular calcium concentration on hyperpolarizing responses of the hamster egg. 611

MIYAZAKI Shun-ichi *see* IGUSA Yukio, MIYAZAKI Shun-ichi & YAMASHITA Naohide Periodic hyperpolarizing responses in hamster and mouse eggs fertilized with mouse sperm. 633

MOHAMED O.Y. *see* DAUGHERTY A., MOHAMED O.Y. & WOODWARD B. Effect of potassium on coronary artery ligation induced ventricular arrhythmias in the isolated rat heart. 66*P*

MONTAROLO P.G. *see* BENEDETTI F., MONTAROLO P.G., STRATA P. & TEMPIA F. Inferior olive inactivation decreases the excitability of the intracerebellar and lateral vestibular nuclei in the rat. 195

MOREL Nicole *see* GODFRAIND T. & MOREL Nicole Na–Ca exchange in guinea-pig and rat smooth muscle. 23*P*

MORGAN P.F. & STONE T.W. The effect of ethylenediamine analogues on *in vitro* benzodiazepine binding in the rat cerebral cortex. 56*P*

MORLEY J. & SANJAR S. Use of a solid state beta-particle detector for measurement of mucociliary transport in the trachea of small laboratory animals. (D) 16*P*

MUNDAY K.A. *see* LUSH D.J., MUNDAY K.A. & NOBLE A.R. Furosemide fails to alter plasma active or inactive renin in conscious sheep but does so in anaesthetized animals. 57

MUNDAY K.A., NOBLE A.R. & RICHARDS H.K. Active and inactive plasma renin during the development of one kidney, one clip experimental hypertension in the rabbit. 33*P*

MURTHY K.S.K. *see* JAMI Léna, MURTHY K.S.K., PETIT J. & ZYTNICKI D. After-effects of repetitive stimulation at low frequency on fast-contracting motor units of cat muscle. 129

NEAL Michael J. *see* CUNNINGHAM Jo R., DAWSON Claire & NEAL Michael J. Evidence for a cholinergic inhibitory feed-back mechanism in the rabbit retina. 455

NICHOLLS John *see* HENDERSON Leslie P., KUFFLER Damien P., NICHOLLS John & ZHANG Ren-ji Structural and functional analysis of synaptic transmission between identified leech neurones in culture. 347

NICHOLSON C. *see* HOUNSGAARD J. & NICHOLSON C. Potassium accumulation around individual Purkinje cells in cerebellar slices from the guinea-pig. 359

NIMMO M.A. & SNOW D.H. The effect of ageing on skeletal muscle fibre characteristics in two inbred strains of mice. 24*P*

NOBLE A.R. *see* LUSH D.J., MUNDAY K.A. & NOBLE A.R. Furosemide fails to alter plasma active or inactive renin in conscious sheep but does so in anaesthetized animals. 57

NOBLE A.R. *see* MUNDAY K.A., NOBLE A.R. & RICHARDS H.K. Active and inactive plasma renin during the development of one kidney, one clip experimental hypertension in the rabbit. 33*P*

NUSSINOVITCH I. *see* BEHRENS Maria Isabel, LETINSKY M.S., NUSSINOVITCH I. & RAHAMIMOFF R. Synaptic involvement in the Rosenblueth-Luco phenomenon in the frog and rat. 46*P*

OLVERMAN H.J. *see* JONES A.W., OLVERMAN H.J. & WATKINS J.C. A study of *N*-methyl-D-aspartate receptor sites on rat brain membranes using [^{3}H]D(−)-2-amino-5-phosphonovalerate as a labelled ligand. 45*P*

ORKAND R.K. *see* COLES J.A. & ORKAND R.K. Modification of potassium movement through the retina of the drone (*Apis mellifera* ♂) by glial uptake. 157

OSCARSSON O. *see* CAMPBELL N.C., EKEROT C.-F., HESSLOW G. & OSCARSSON O. Dendritic plateau potentials evoked in Purkinje cells by parallel fibre volleys in the cat. 209

OSIM E.E. & WYLLIE J.H. Loss of 5-hydroxytryptamine from mammalian circulating labelled platelets. 77

PACK R.J. *see* AL-UGAILY Layla H., PACK R.J. & WIDDICOMBE J.G. The innervation of the murine airway. 54*P*

PARKER I. *see* MILEDI R., PARKER I. & ZHU P.H. Calcium transients studied under voltage-clamp control in frog twitch muscle fibres. 649

PARSONS M.E. & PRICE Carolyn A. Evidence for histamine H_1-receptor modulation of acid secretion *in vitro*. 35*P*

PASSATORE Magda *see* FILIPPI G.M., GRASSI C. & PASSATORE Magda The possible action of the cervical sympathetic nerves on intrafusal fibres of jaw muscle spindles in the rabbit. 27*P*

PASTERNAK C.A. *see* ALDER G., BASHFORD C.L. & PASTERNAK C.A. A new method for measuring intracellular pH and potassium concentration. (D) 5*P*

PATRIGNANI P. *see* EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

PATRONO C. *see* EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

PAUL R. *see* BARLOW H.B., GEMPERLEIN R., PAUL R. & STEINER A. Human contrast sensitivity for comb-filtered spectra. 50*P*

PEATFIELD A.C., RICH B., RICHARDSON P.S. & WILLIAMS I.P. The action of prostaglandins on secretion from human airway *in vitro*. 30*P*

PEPPER J.R. *see* DRAKE-HOLLAND Angela J., HYND J. & PEPPER J.R. A method for producing left ventricular hypertrophy with normal coronary artery pressure in puppies. (D) 1*P*

PERKINS M.N. & STONE T.W. Characteristics of quinolinic acid induced release of adenosine from rat cerebral cortex *in vivo* and its interaction with kynurenic acid. 55*P*

PERKINS M.N. & STONE T.W. Amino acid receptors mediating excitatory responses to quinolinic acid on rat central neurones. 55*P*

PERRY B. *see* HOWARD R., MCGARRICK J., PERRY B., STEWART A. & THEXTON A. The radiographic study of human tongue movements. (D) 10*P*

PETIT J. *see* JAMI Léna, MURTHY K.S.K., PETIT J. & ZYTNICKI D. After-effects of repetitive stimulation at low frequency on fast-contracting motor units of cat muscle. 129

PFLUG J.J. *see* KNOX P. & PFLUG J.J. The effect of arterial occlusion on lymphocyte emigration from the popliteal lymph node in the greyhound. 53*P*

PHILLIPS R.J.W. & ROBINSON B.F. Studies on the responsiveness of forearm resistance vessels to dilator agents in normal and hypertensive men: evidence for functional abnormalities of the vascular smooth muscle in primary hypertension. (D) (T) 12*P*

PIGOTT R. Rapid hybridoma screening using fluorescence immunocytochemistry on rat and mouse neural cell cultures. (D) 15*P*

PRESTWICH S.A. *see* HORTON R.W., JAZRAWI S.P. & PRESTWICH S.A. Noradrenergic (NA) receptor binding in strains of mice susceptible (*DBA/2*) and resistant (*C57 BL/6*) to audiogenic seizures (AS). 58*P*

PRICE Carolyn A. *see* PARSONS M.E. & PRICE Carolyn A. Evidence for histamine H_1-receptor modulation of acid secretion *in vitro*. 35*P*

PYKE D.A. *see* FELDBERG W., PYKE D.A. & STUBBS W.A. Hyperglycaemia, a morphine-like effect produced by naloxone in the cat. 121

RAHAMIMOFF R. *see* BEHRENS Maria Isabel, LETINSKY M.S., NUSSINOVITCH I. & RAHAMIMOFF R. Synaptic involvement in the Rosenblueth-Luco phenomenon in the frog and rat. 46*P*

RANKIN A.J. *see* HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. The influence of cephalic blood P_{CO_2} on the cardiac inotropic response from carotid chemoreceptors. 21*P*

RASMINSKY M. *see* BOSTOCK H. & RASMINSKY M. Potassium channel distribution in spinal root axons of dystrophic mice. 145

REUTER H. *see* CACHELIN A.B., DE PEYER J.E., KOKUBUN S. & REUTER H. Sodium channels in cultured cardiac cells. 389

REYNOLDS J.M. Collection of neonatal rabbit saliva by oral cannulation of the submandibular duct. (D) 8*P*

RICH B. *see* PEATFIELD A.C., RICH B., RICHARDSON P.S. & WILLIAMS I.P. The action of prostaglandins on secretion from human airway *in vitro*. 30*P*

RICHARDS H.K. *see* MUNDAY K.A., NOBLE A.R. & RICHARDS H.K. Active and inactive plasma renin during the development of one kidney, one clip experimental hypertension in the rabbit. 33*P*

RICHARDSON P.S. *see* PEATFIELD A.C., RICH B., RICHARDSON P.S. & WILLIAMS I.P. The action of prostaglandins on secretion from human airway *in vitro*. 30*P*

ROBERTS A.M. *see* COLERIDGE H.M., COLERIDGE J.C.G. & ROBERTS A.M. Rapid shallow breathing evoked by selective stimulation of airway C fibres in dogs. 415

ROBINSON B.F. *see* PHILLIPS R.J.W. & ROBINSON B.F. Studies on the responsiveness of forearm resistance vessels to dilator agents in normal and hypertensive men: evidence for functional abnormalities of the vascular smooth muscle in primary hypertension. (D) (T) 12*P*

ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* collection of mucus from the ferret trachea. (D) 7*P*

ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* measurement of submucosal gland secretion in the ferret trachea by observation of tantalum dust-coated 'hillocks'. (D) 8*P*

ROTHWELL N.J., STOCK M.J. & WINTER P.D.O'B. Acute effects of adrenoreceptor agonists on thermogenesis and brown adipose tissue activity in rats. 62*P*

ROTHWELL N.J., STOCK M.J. & WARWICK B.P. Effects of insulin on thermogenic responses to noradrenaline and diet in rats. 63*P*

SANJAR S. *see* MORLEY J. & SANJAR S. Use of a solid state beta-particle detector for measurement of mucociliary transport in the trachea of small laboratory animals. (D) 16*P*

SARNA G.S. *see* CURZON G., GREEN P., SARNA G.S. & TRICKLEBANK M.D. Tryptophan transport mechanisms beyond the blood–brain barrier of the rat. 67*P*

SAUNDERS K.B. *see* DAVIDSON R.N., GREIG C., HUSAIN A. & SAUNDERS K.B. Measurement of respiratory impedance. (D) 9*P*

SAUNDERS K.B. *see* CUMMIN A.R.C., IYAWE V.I. & SAUNDERS K.B. The ventilation response to carbon dioxide in exercise. 17*P*

SHEU S-S. *see* EISNER D.A., LEDERER W.J. & SHEU S-S. The role of intracellular sodium activity in the anti-arrhythmic action of local anaesthetics in sheep Purkinje fibres. 239

SIBLEY C.P. *see* BAUMAN K.F. & SIBLEY C.P. An ultrastructural tracer study of maternal to fetal protein transfer across the guinea-pig haemochorial placenta; effect of molecular charge. 34*P*

SMITH D.M. *see* JUKES M.G.M. & SMITH D.M. The neural regulation of copulatory behaviour in male rats. 42*P*

SMITH S. *see* BIGLAND-RITCHIE Brenda, JOHANSSON R., LIPPOLD O.C.J., SMITH S. & WOODS J.J. Changes in motoneurone firing rates during sustained maximal voluntary contractions. 335

SNOW D.H. *see* NIMMO M.A. & SNOW D.H. The effect of ageing on skeletal muscle fibre characteristics in two inbred strains of mice. 24*P*

SOLADOYE A.O. *see* HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. The influence of cephalic blood P_{CO_2} on the cardiac inotropic response from carotid chemoreceptors. 21*P*

STEFANI E. *see* ELIZALDE A., HUERTA M. & STEFANI E. Selective reinnervation of twitch and tonic muscle fibres of the frog. 513

STEINER A. *see* BARLOW H.B., GEMPERLEIN R., PAUL R. & STEINER A. Human contrast sensitivity for comb-filtered spectra. 50*P*

STEINMAN R.M. *see* COLLEWIJN H., MARTINS A.J. & STEINMAN R.M. Compensatory eye movements during active and passive head movements: fast adaptation to changes in visual magnification. 259

STERN Ligia, TENENHOUSE A. & YU E.W.-T. Uptake, storage and secretion of 5-hydroxytryptamine and its amino acid precursor by dispersed rat pancreas acinar cells 555

STEWART A. *see* HOWARD R., MCGARRICK J., PERRY B., STEWART A. & THEXTON A. The radiographic study of human tongue movements. (D) 10*P*

STEWART G.W. *see* ELLORY J.C., FLATMAN P.W. & STEWART G.W. Inhibition of human red cell sodium and potassium transport by divalent cations. 1

STOCK M.J. *see* COLSON R.H., HYND J. & STOCK M.J. Continuous recordings of core and interscapular brown fat temperature by radio telemetry in the rat. (D) 9*P*

STOCK M.J. *see* ROTHWELL N.J., STOCK M.J. & WINTER P.D.O'B. Acute effects of adrenoreceptor agonists on thermogenesis and brown adipose tissue activity in rats. 62*P*

STOCK M.J. *see* ROTHWELL N.J., STOCK M.J. & WARWICK B.P. Effects of insulin on thermogenic responses to noradrenaline and diet in rats. 63*P*

STONE T.W. *see* PERKINS M.N. & STONE T.W. Characteristics of quinolinic acid induced release of adenosine from rat cerebral cortex *in vivo* and its interaction with kynurenic acid. 55*P*

STONE T.W. *see* PERKINS M.N. & STONE T.W. Amino acid receptors mediating excitatory responses to quinolinic acid on rat central neurones. 55*P*

STONE T.W. *see* MORGAN P.F. & STONE T.W. The effect of ethylenediamine analogues on *in vitro* benzodiazepine binding in the rat cerebral cortex. 56*P*

STONE T.W. *see* LLOYD H.G.E. & STONE T.W. A different time course of purine release from rat brain slices and synaptosomes. 57*P*

STONE T.W. *see* HUGHES P.R. & STONE T.W. Purine receptors in the rat left atrium. 58*P*

STRATA P. *see* BENEDETTI F., MONTAROLO P.G., STRATA P. & TEMPIA F. Inferior olive inactivation decreases the excitability of the intracerebellar and lateral vestibular nuclei in the rat. 195

STUBBS W.A. *see* FELDBERG W., PYKE D.A. & STUBBS W.A. Hyperglycaemia, a morphine-like effect produced by naloxone in the cat. 121

SYABBALO C. *see* BUNDGAARD A., SYABBALO C. & WIDDICOMBE J.G. A method of measuring human nasal airflow resistance. (D) 7*P*

TAKAHASHI T. *see* EUSEBI F., MILEDI R. & TAKAHASHI T. Aequorin–calcium transients in frog twitch muscle fibres. 91

TAXT Torfinn Local and systemic effects of tetrodotoxin on the formation and elimination of synapses in reinnervated adult rat muscle. 175

TAYLOR D.E.M. *see* CHAPPLE D.J. & TAYLOR D.E.M. The effect of P_{O_2} and P_{CO_2} on the viscosity of human blood. 22*P*

TAYLOR G.S. *see* BYWATER R.A.R. & TAYLOR G.S. Non-cholinergic fast and slow post-stimulus depolarization in the guinea-pig ileum. 47

TEMPIA F. *see* BENEDETTI F., MONTAROLO P.G., STRATA P. & TEMPIA F. Inferior olive inactivation decreases the excitability of the intracerebellar and lateral vestibular nuclei in the rat. 195

TENENHOUSE A. *see* STERN Ligia, TENENHOUSE A. & YU E.W.-T. Uptake, storage and secretion of 5-hydroxytryptamine and its amino acid precursor by dispersed rat pancreas acinar cells 555

THEXTON A. *see* HOWARD R., MCGARRICK J., PERRY B., STEWART A. & THEXTON A. The radiographic study of human tongue movements. (D) 10*P*

THEXTON A. *see* MCGARRICK J. & THEXTON A. Computer-based display of the individual components of oral movement comprising feeding in animals and man. (D) 11*P*

THEXTON A. *see* MCGARRICK J. & THEXTON A. Digastric reflex latency in the pre-weaning rabbit. 28*P*

TOMLINSON D.R. *see* MAYER J. Heidi & TOMLINSON D.R. The influence of aldose reductase inhibition and nerve *myo*-inositol on axonal transport and nerve conduction velocity in rats with experimental diabetes. 25*P*

TRICKLEBANK M.D. *see* CURZON G., GREEN P., SARNA G.S. & TRICKLEBANK M.D. Tryptophan transport mechanisms beyond the blood–brain barrier of the rat. 67*P*

TRIPATHI A. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Dual action of almitrine on pulmonary blood vessels in the dog. 19*P*

UDDIN K.K. *see* CASE R.M., GARNER A. & UDDIN K.K. Simultaneous determination of duodenal and pancreatic bicarbonate transport: differential effects of secretin and prostaglandin E_2 in the cat *in vivo*. 36*P*

UNWIN A. *see* LUCK P. & UNWIN A. Influence of a 48-hour fast on thermoregulatory sweating in man. 38*P*

VICKERS Jennifer M. *see* DEMAINE C., KANN Hazel C. & VICKERS Jennifer M. Pinealectomy stimulates spermatogenesis in the Syrian hamster. 60*P*

WANLESS R.B. Effect of cardiac denervation on myocardial oxygen consumption *in vitro*. 20*P*

WARWICK B.P. *see* ROTHWELL N.J., STOCK M.J. & WARWICK B.P. Effects of insulin on thermogenic responses to noradrenaline and diet in rats. 63*P*

WATKINS J.C. *see* JONES A.W., OLVERMAN H.J. & WATKINS J.C. A study of *N*-methyl-D-aspartate receptor sites on rat brain membranes using [^{3}H]D(−)-2-amino-5-phosphonovalerate as a labelled ligand. 45*P*

WENNMALM Å. *see* EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

WENNMALM M. *see* EDLUND A., FREDHOLM B.B., PATRIGNANI P., PATRONO C., WENNMALM Å. & WENNMALM M. Release of two vasodilators, adenosine and prostacyclin, from isolated rabbit hearts during controlled hypoxia. 487

WESTBROOK Gary L. *see* MAYER Mark L. & WESTBROOK Gary L. A voltage-clamp analysis of inward (anomalous) rectification in mouse spinal sensory ganglion neurones. 19

WHEAL H.V. *see* LANCASTER B. & WHEAL H.V. Failure of paired pulse inhibition in the hippocampus of rats pretreated with kainic acid. 44*P*

WHITE M.J. *see* DAVIES C.T.M., WHITE M.J. & YOUNG K. Mechanical properties of triceps surae muscle in children aged 11 and 14 years. 23*P*

WHITEHEAD Saffron A. *see* CARTER D.A. & WHITEHEAD Saffron A. Inhibition of the postive-feedback effect of ovarian steroids in ovariectomized rats by hyperprolactinaemia: evidence for mediation via endogenous opioid peptides. 39*P*

WHITEHEAD Saffron A. *see* HEATHER J.D. & WHITEHEAD Saffron A. Acute and chronic effects of a potent analogue of luteinizing hormone releasing hormone (Buserelin) on pituitary LH responses in rats. 40*P*

WHITEHEAD Saffron A. *see* INKSTER S.E. & WHITEHEAD Saffron A. Effects of neonatal administration of monosodium glutamate on serum LH and *in vitro* pituitary LH responses to LHRH and potassium in intact rats. 61*P*

WIDDICOMBE J.G. *see* BUNDGAARD A., SYABBALO C. & WIDDICOMBE J.G. A method of measuring human nasal airflow resistance. (D) 7*P*

WIDDICOMBE J.G. *see* ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* collection of mucus from the ferret trachea. (D) 7*P*

WIDDICOMBE J.G. *see* ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* measurement of submucosal gland secretion in the ferret trachea by observation of tantalum dust-coated 'hillocks'. (D) 8*P*

WIDDICOMBE J.G. *see* AL-UGAILY Layla H., PACK R.J. & WIDDICOMBE J.G. The innervation of the murine airway. 54*P*

WILLIAMS I.P. *see* PEATFIELD A.C., RICH B., RICHARDSON P.S. & WILLIAMS I.P. The action of prostaglandins on secretion from human airway *in vitro*. 30*P*

WILSON J.A. *see* KELLY J.S., MAYER M.L., WILSON J.A. & WILSON K.C.P. Rat striatum in monolayer cell culture. (D) 14*P*

WILSON K.C.P. *see* BROOKS P.A., CRUNELLI V., FORDA S., KELLY J.S. & WILSON K.C.P. Intracellular recordings from raphe neurones of the rat and their identification *in vitro*. (D) 12*P*

WILSON K.C.P. *see* KELLY J.S., MAYER M.L., WILSON J.A. & WILSON K.C.P. Rat striatum in monolayer cell culture. (D) 14*P*

WILSON S.M. *see* MANN G.E., WILSON S.M. & YUDILEVICH D.L. Characteristics of a high-affinity-L-lysine transport system in the basolateral membrane of cat salivary epithelium. 32*P*

WINTER P.D.O'B. *see* ROTHWELL N.J., STOCK M.J. & WINTER P.D.O'B. Acute effects of adrenoreceptor agonists on thermogenesis and brown adipose tissue activity in rats. 62*P*

WISE J.C.M. *see* CRUNELLI V., FORDA S., KELLY J.S. & WISE J.C.M. A programme for the analysis of intracellular data recorded from *in vitro* preparations of central neurones. (D) 13*P*

WOODS J.J. *see* BIGLAND-RITCHIE Brenda, JOHANSSON R., LIPPOLD O.C.J., SMITH S. & WOODS J.J. Changes in motoneurone firing rates during sustained maximal voluntary contractions. 335

WOODWARD B. *see* DAUGHERTY A., MOHAMED O.Y. & WOODWARD B. Effect of potassium on coronary artery ligation induced ventricular arrhythmias in the isolated rat heart. 66*P*

WRAY Susan The effect of pregnancy and lactation on the mesometrium of the rat. 525

WYLLIE J.H. *see* OSIM E.E. & WYLLIE J.H. Loss of 5-hydroxytryptamine from mammalian circulating labelled platelets. 77

XIE C.-C. *see* ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* collection of mucus from the ferret trachea. (D) 7*P*

XIE C.-C. *see* ROBINSON N., WIDDICOMBE J.G. & THE LATE XIE C.-C. *In vitro* measurement of submucosal gland secretion in the ferret trachea by observation of tantalum dust-coated 'hillocks'. (D) 8*P*

YAMASHITA Naohide *see* IGUSA Yukio, MIYAZAKI Shun-ichi & YAMASHITA Naohide Periodic hyperpolarizing responses in hamster and mouse eggs fertilized with mouse sperm. 633

YONGE R.P. The study of entrainment of breathing during exercise using a time-ramp interruption method. 18*P*

YOUNG K. *see* DAVIES C.T.M., WHITE M.J. & YOUNG K. Mechanical properties of triceps surae muscle in children aged 11 and 14 years. 23*P*

YU E.W.-T. *see* STERN Ligia, TENENHOUSE A. & YU E.W.-T. Uptake, storage and secretion of 5-hydroxytryptamine and its amino acid precursor by dispersed rat pancreas acinar cells 555

YUDILEVICH D.L. *see* MANN G.E., WILSON S.M. & YUDILEVICH D.L. Characteristics of a high-affinity-L-lysine transport system in the basolateral membrane of cat salivary epithelium. 32*P*

ZEKI S. Does the colour of the after image depend upon wavelength composition? 49*P*

ZEKI S. *see* FRIES W. & ZEKI S. The laminar origin of the cortical inputs to the fourth visual complex of macaque monkey cortex. 51*P*

ZHANG Ren-ji *see* HENDERSON Leslie P., KUFFLER Damien P., NICHOLLS John & ZHANG Ren-ji Structural and functional analysis of synaptic transmission between identified leech neurones in culture. 347

ZHU P.H. *see* MILEDI R., PARKER I. & ZHU P.H. Calcium transients studied under voltage-clamp control in frog twitch muscle fibres. 649

ZYTNICKI D. *see* JAMI Léna, MURTHY K.S.K., PETIT J. & ZYTNICKI D. After-effects of repetitive stimulation at low frequency on fast-contracting motor units of cat muscle. 129